

MOSIN, I.P., detsent, kand.tekhn.nauk

Determination of the figure of the earth with a relative error  
for the square of the bulge of the ellipsoid. Izv.vys.ucheb.  
nav.; geod.i aerof. no.4:101-115 '62. (MIR 16:2)

1. L'vovskiy politekhnicheskiy institut.  
(Earth—Figure)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135110020-7

MONIN, I.

More on studying an adjusted geoid with using a normal field.  
Geod. i kart. no.11:63-68 N '62. (MIRA 15:12)  
(Earth--Figure)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135110020-7"

L 19295-63 EWT(1)/BDS APPFC 17

ACCESSION NR: AR3006556

8/0169/63/000/008/0019/0019

SOURCE: RZh. Geofizika, Abs. 8G123

AUTHOR: Monin, I. F.

TITLE: Determination of the figure of a regularized geoid with calculation of third order values

CITED SOURCE: Nauchn. zap. L'vovsk. politekhn. in-t, vyp. 85, 1963, 86-93

TOPIC TAGS: geoid, regularized geoid, reference ellipsoid, oblateness

TRANSLATION: A formula for the height of a regularized geoid over a reference ellipsoid with an error of the order of the square of the oblateness with and without the use of the normal field is given. Three successive integrations on the sphere are required. The obtained formula is proven in an example. M.Yu.

DATE ACQ: 06Sep63

SUB CODE: MM

INCL: - 00

Cord 1/1

KONIN, I.F.

Computations of gravity anomalies, quasi-geoid heights, and plumb-line deviations. Dop. AN UkrSSR no. 5:596-599 '63. (MIRA 10:9)

1. L'vovskiy politekhnicheskiy institut. Predstavлено академиком  
АН UkrSSR V.B.Porfir'yevym (Porfir'ev, V.B.).

ACCESSION NR: AP3009252

8/0021/63/000/009/1177/1181

AUTHOR: Monin, I. F.

TITLE: On the determination of the form of the earth's topographic surface

SOURCE: AN UkrSSR. Dopovidi, no. 9, 1963, 1177-1181

TOPIC TAGS: geodesy, geoid, quasi-geoid, ellipsoid, ellipsoidal earth terrestrial ellipsoid, earth topography, local gravity, stokes method

ABSTRACT: Utilizing the general conclusions and results of M. S. Molodens'kiy [M.S.M., M.I. Yurkina, V.P. Yeremeyev, Trudy\* TsNIIGAiK, "B". 131, 123 (1960)] new formulas were obtained which permitted the determination of the form of the earth's topographic surface with an accuracy of  $e^2 N$ .  $e$  is the eccentricity of the terrestrial ellipsoid, and  $N$  is the height of the quasi-geoid; the quantity  $e^2 N$  is thus of third order. Orig. art. has 11 numbered equations.

ASSOCIATION: L'viv's'ky'y Politekhnichny'y Instytut (L'vov Polytechnic Institute)

SUBMITTED: 06Jun62

DATE ACQ: 04Nov63

ENCL: 00

SUB CODE: AS

NO REF. Sov: 002

OTHER: 000

Card 1/1

MONIN, I. V.

Calculating the deflection of the plumb line. Astron. star. 40  
no. 1:179-183 J-J '63. (MIRA 16:1)

(Plumb-line deflections)

L 1118-41

IWT(1)/HDS--AFFTC--TF

ACCESSION NR: AP3001248

8/0033/63/040/003/0671/c678

AUTHOR: Morin, I.P.

52

TITLE: On the determination of the figure of topographic surface of the Earth with a relative error of the order of the square of the flattening of the terrestrial spheroid

SOURCE: Astronomicheskiy zhurnal, v. 40, no. 3, 1963, 571-578

TOPIC INDEX: geodesy, topography, figure of the Earth, terrestrial spheroid, geoid, flattening of spheroid

ABSTRACT: The paper proposes a method for the determination of the figure of the topographic surface of the earth with an error not exceeding the fourth order of smallness, that is, the square of the flattening of the terrestrial spheroid. The elevations  $N$  and the deflections of the plumb line  $\xi_1$  and  $\eta_1$  are determined simultaneously. The formulas obtained are of the most general type; regularized geoid, with consideration of quantities of both the second and the third orders. The study constitutes a step beyond the second-order formulas of V.S. Molodenskiy (Trudy, no. 131, 1960) which afford an accuracy of the

Card 1/1

MONIN, I.Y.

Determining the figure of the earth with allowance for third-order  
magnitudes. Dop. AN UkrSSR no. 5:584-587 '65.

1. L'vovskiy politekhnicheskiy institut.

(MIRA 18:5)

L'vov-66 GNT(I) GW  
ACC NR: AP6025525

SOURCE CODE: UR/0154/65/C00/006/0071/0076

AUTHOR: Konin, I. F. (Docent)

ORG: L'vov Polytechnic Institute (L'vovskiy politekhnicheskiy institut)

TITLE: Theory of determination of the topographic surface of the earth

SOURCE: IVUZ. Geodesiya i aerofotos'yenka, no. 6, 1965, 71-76

TOPIC TAGS: topography, geodesy

ABSTRACT: In 1945 N. S. Molodenskiy developed his important theory of determination of the physical surface of the earth. The paper cited below, as background, gives the Molodenskiy equations for the height of the quasi-geoid (or disturbing potential). Later Molodenskiy was able to suggest ways in which one of his vital equations might be solved, but until now no solution of that equation has been obtained. This paper presents a solution of this important integral equation. The solution is given in formulas (6), (10) and (11) in this paper, accompanied by their derivation. In this paper, accompanied by their derivation. In this solution the center of the reference ellipsoid coincides with the earth's center of inertia. It is shown that transformation to the geodetic reference ellipsoid is easy. Orig. art. has 12 formulas.  
[JPRS: 35,809]

SUB CODE: 08 / SUM DATE: 13May65 / ORIG REF: 008 / OTH REF: 002

Cord 1/1 (plu)

0916 0970

L 14945-66 EWT(1) GW

ACC NR: AF5019415

SOURCE CODE: UR/0021/65/000/007/0893/0896

AUTHOR: Monin, I. F.

ORG: Lv'vov Polytechnic Institute (Lv'vis'kyyi politekhnichnyi instytut)

TITLE: Determining the vertical gradient of the terrestrial acceleration of a geoidal earth

SOURCE: AN UkrRSR. Dopovidzi, no. 7, 1965, 893-896

TOPIC TAGS: acceleration force, gravitation, earth gravity

ABSTRACT: New formulas are derived for determining the vertical gradient of a gravitational force  $\Delta g$  considering third order terms. The formulas are based on very general assumptions and the results of M. S. Molodenskyyi (Tr. TANIIKA, 131, 57, 1960). The earlier results considered only second order terms. The paper was presented by S. I. Subbotin, Academician AN URSR. Orig. art. has: 13 formulas.

SUB CODE: 08 SUBM DATE: 26May64/ ORIG REF: 003/ OTH REF: 000

Card 1/1

REF ID:	WT(0) IJP(0)	
ACCESSION #: AP5006012	S/0033/65/043/001/0183/0189	3 3 B
AUTHOR: Sulin, L. P.		
TITLE: Solution of N. S. Molodenskiy's integral equation defining the earth's physical surface, taking into account third-order terms		
SOURCE: Astrofizicheskiy zhurnal, v. 42, no. 1, 1963, 183-189		
TOPIC CODE: geodesy, earth figure, plumbline deflection, reference ellipsoid, quasi-geoid, Molodenskiy theory, Stokes function, earth surface		
ABSTRACT: In deriving formulas making it possible to determine the height of the quasi-geoid from deflections of the plumb line at points on the earth's topographic surface, N. S. Molodenskiy considered only values of the second order of magnitude: $a^4; g^4; \frac{g}{a}; \dots$ , where $a$ is the semi-major axis of the reference ellipsoid of revolution, whose first eccentricity is $e$ ; $g$ is acceleration due to gravity; $\frac{g}{a}$ is the height of the quasi-geoid; $\frac{g}{a}$ is deflection of the plumb line. Third-order terms such as $a^6; g^6; \frac{g^2}{a^2}; \dots$ were not considered by Molodenskiy. However, modern geodesy is imposing increasing requirements on the accuracy of geodetic determination. For this reason, the author has derived formulas for determining the heights of the quasi-		

L 41282-5	ASSOCIATION	AP5006012	
<p>series, taking third-order terms into account. The formulas are derived on the basis of the general Molodenskiy theory. Derivation of the basic equation is followed by its solution, the first step being transformation of a near surface into another surface, changing the angular coordinates in a polar coordinate system and changing only the radius vectors. It is shown that integral equations can be derived which can be solved easily using the Stokes function. This is followed by derivation of formulas for determining the height of the quasi-geoid. The final formulas presented make it possible to determine the figure of the earth's surface with a relative error on the order of the square of flattening of the reference ellipsoid. Some investigators assume that the modern accuracy of determination of the semi-major axis of the reference ellipsoid does not make it possible to determine <math>N</math> with an error <math>\leq 10^{-2}</math> (where <math>\epsilon</math> is the flattening of the ellipsoid). This is untrue; it can be determined with an error on the order of <math>\epsilon^{1/2}</math>. Therefore, the error in the height of the quasi-geoid will be <math>\epsilon^{1/2} + \text{constant}</math>. Orig. art. has: 46 formulas.</p>			
ASSOCIATION	<u>L'vovskiy politekhnicheskiy institut (L'vov polytechnic institute)</u>		
SUBMITTED	01/01/93	ENCL: 00	SUB CODE: 25
NO KEY DIV	001	OTHER: 000	
Card	/1		

I 27352-66 EWT(1)/EWP(m)/FCC/T IJP(e) GW

ACC NR: AP5007759 (A, N) SOURCE CODE: UR/0021/66/000/101/0076/0079

AUTHOR: Moxin, I. V.

ORG: L'vov Polytechnic Institute (L'viv's'kyj politekhnichnyj institut)

TITLE: Determination of the vertical gradient of the terrestrial acceleration of a real earth

SOURCE: AN UkrSSR. Dopovidi, no. 1, 1966, 76-79

TOPIC TAGS: acceleration, acceleration force, earth gravity, differential equation, Green function, approximation calculation

ABSTRACT: The author solves the problem of determining the vertical anomalous gradient of the terrestrial acceleration of a real earth, starting with specified data on the physical surface of the earth, the anomalies of the gravitational force on the earth, and the height of the quasigeoid. The differential equation and the boundary conditions for the anomalous potential are taken from an earlier paper by the author (Izv. vuzov. Geodez. i aerofoto. v. 4, 114, 1962). The equations are integrated by the Green's function method. Equations are written out on this basis for the successive approximations to the vertical gradient and its anomalies. This report was presented by Academician AN UkrSSR S. I. Subbotin. Orig. art. has: 15 formulas.

SUB CODE: 12, 08/ SUBM DATE: 18May64/ OSIO REF: 002/ OTH REF: 001

Card 1/1 3/0

24168-66 EMT(1) GW

ACC NR: AP6015267

SOURCE CODE: UR/0021/66/000/002/0175/0179

AUTHOR: Hennin, I. F.

21

B

ORG: L'vov Polytechnic Institute (L'viv's'kyj politekhnichnyj instytut)TITLE: Plumb-line deflection on the topographic surface of the Earth

SOURCE: AN UkrSSR. Dopovidi, no. 2, 1966, 175-179

TOPIC TAGS: boundary value problem, geophysics

ABSTRACT: The boundary value conditions for the anomalous potential and its derivative given for a topographic surface are substituted into Green's formula for the anomalous potential outside the earth's surface. Differentiating Green's formula with respect to the corresponding directions and transferring to the earth's surface, formulas are obtained for determining the deflection of the plumb-line outside as well as on the earth's surface. This paper was presented by Academician AN UkrSSR S. I. Subbotin. Orig. art. has: 9 formulas. [Based on author's Eng. abst.] [JPPS]

SUB CODE: 08 / SUM DATE: 05Jan65 / ORIG REF: 005

2

Card 1/1

L 0670-67 EWT(1) CW

ACC NR: AP6019677

SOURCE CODE: UR/0033/66/043/003/0670/0677

46

B

AUTHOR: Monin, I. P.

ORG: L'vov Polytechnic Institute (Lvovskiy politekhnicheskiy institut)

TITLE: A new method for computing the elements of the external gravity field and the configuration of the topographic surface of the earth

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 3, 1966, 670-677

TOPIC TAGS: geodesy, gravitation field, topography, earth science, gravity, geophysics

ABSTRACT: New formulas are proposed for computing the external perturbing potential of the earth, the heights of the quasi-geoid and deflections of the plumb-line on the earth, the external gravity anomaly, and the vertical anomalous gravity gradient on the earth's topographic surface. The perturbing potential  $T$  is shown to be equal to

$$T = \frac{\Delta M}{x} + \frac{1}{4\pi} \int \Delta g \left\{ \left( -\frac{1}{x} + F_1 \right) \cos \alpha + F_2 \sin \alpha \cos \theta \right\} dS + \frac{1}{4\pi} \int \frac{\partial \Delta g}{\partial n} \rho \left( -\frac{1}{x} + F_1 \right) dS,$$

where

$$F_1 = \frac{1}{r_1} - \frac{\rho}{x^2} \cos \psi,$$

$$F_2 = \frac{1}{x^2} \left( \rho \cos \psi + r_1 + \rho \cos \psi \ln \frac{x + r_1 - \rho \cos \psi}{2x} \right),$$

UDC: 528.22

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L 06070-67

ACC NR: AP6019677

$$F_t = \frac{\rho}{r^3} \left( -\frac{\cos 2\phi}{\sin \psi} - \frac{\rho \cos \phi - z \cos 2\phi}{r_t \sin \psi} + \sin \phi \ln \frac{z + r_t - \rho \cos \phi}{2z} \right),$$

$$\Delta M = \frac{1}{4\pi} \int \left( \Delta g \cos \alpha + \rho \frac{\partial \Delta g}{\partial n} \right) dS.$$

$\Delta g$  is the gravitational force anomaly;  $\Delta M$  is the difference between the mass of the earth and the mass of a reference ellipsoid;  $z$  is the radius vector of a fixed point of outer space;  $\rho$  is the radius-vector of a moving point of the surface  $S$ ;  $n$  is the direction of the outer normal to the surface  $S$ , and  $\alpha$  is the angle between  $\rho$  and  $n$ . From this formula the height of the quasigeoid is obtained from the relationship

$$W_t + U_t - U_0 = \frac{1}{4\pi} \int \Delta g (F_t^* \cos \alpha + F_t^* \sin \alpha \cos \theta) dS + \frac{1}{4\pi} \int \rho \frac{\partial \Delta g}{\partial n} F_t^* dS,$$

$$F_t^* = (F_t)_{\substack{\text{outer} \\ \text{surface}}}, \quad F_t^* = (F_t)_{\substack{\text{inner} \\ \text{ellipsoid}}}, \quad F_t^* = (F_t)_{\substack{\text{inner} \\ \text{ellipsoid}}}$$

where  $W_0$  and  $U_0$  are, respectively, sea level and the surface of the reference ellipsoid. A small parameter is used in deriving formulae for the external gravity gradient on the earth's topographic surface. The author notes that the derivations are made with the exclusion of terms which are higher than second order. Orig. art. has 27 equations.

SUB CODE: 08/ SUBM DATE: 10Sep65/ ORIG REF: 003/ OTH REF: 001

Card 2/2 egk

ACC-NR: AR6028742

SOURCE CODE: UR/0270/66/000/006/0033/0033

AUTHOR: Kondin, I. F.

TITLE: On determining the earth's shape and outer gravitational field

SOURCE: Ref. zh. Geodeziya, Abs. 6.52.24S

REF SOURCE: Geod., kartogr. i aerofotos"yemka. Mezhved. resp. nauchno-tekhn. sb., vyp. 2, 1965, 24-30

TOPIC TAGS: gravitation field, earth gravity

TRANSLATION: The function  $\frac{1}{r} \cdot \frac{\partial}{\partial r}(r^4 T)$  which is harmonic and regular to infinity, may be represented by the potential of a simple layer of density  $\mu$  and distributed over the entire surface  $S$ :

$$\frac{1}{r} \cdot \frac{\partial}{\partial r}(r^4 T) = \int \frac{\mu}{r_1} dS = -4\pi G + 2(W_0 - U_0),$$

where

$$r_1^4 = r^4 + \rho^4 - 2\rho r \cos \varphi,$$

UDC: 528.21:531.26

Card 1/2

ACC NRE AR6028742

$\rho$  is the radius vector of some point of the surface  $S$ ,  $\psi$  is the angle between  $\rho$  and  $x$ ,  $a$  is the major semi-axis of the ellipsoid. The value of the potential  $T$ , which disturbs the outer space, is given by the formula:

$$T = \frac{4\pi G}{3} \int \mu F dS,$$

where

$$F = \frac{1}{r} - \frac{\rho}{r^2} \cos \psi - \frac{1}{r^2} \frac{\rho}{r} \cos \psi \ln \frac{r+r_1-\rho \cos \psi}{2r}.$$

The density  $\mu$ , of this simple layer is obtained from the integral equation by the method furnished by M. S. Molodenskiy. Formulas are derived which define the perturbing potential, anomalies in the force of gravity, the deviation of the plumbline, the vertical anomalous gradient of gravity in outer space and at the surface  $S$ . It is shown that the formula for the perturbing potential on the surface of a sphere of radius  $a$  is identical to the general Stokes formula. 4 references. V. Butuk.

SUB CODE: 08

Card 2/2

MORIN, I.F., dotsent

Theory of the regularized geoid. Izv. vys. ucheb. zav. f. geod. i  
aerof. no. 6r91-94 '63 (MIRA 17r7)

l. Lvovskiy politekhnicheskiy institut.

MONIN, M., polkovnik, kand.istoricheskikh nauk

Provocations and espionage are invariable features of the U.S.  
policy. Komm.Vooruzh.Sil 1 no.5:50-55 D '60. (MIRA 14:8)  
(Espionage, American)

MONIN, M.

Forty times more accurate! Mauka i zhizn' 29 no.1:28-29 Ja  
"62. (MIRA 15:3)  
(Condensors (Electricity)) (Automation)

AKOL'ZIN, L.Ye.; BOROZDOV, I.A.; BEDILO, V.Ye.; TERESIKIN, F.N. Prinimali  
uchastiye: BELYAEV, P.R.; BEREZHNOY, N.V.; BUBIR', V.A.; VASCHAVSKIY,  
I.N.; DUDKO, V.P.; DERSHOV, V.S.; DUGIN, Ye.V.; DUKALOV, M.Y.;  
IVANOV, P.S.; KOHAREVA, V.F.; MOGIN, M.I.; MOGILKO, A.P.; PANACHEJKO,  
A.I.; POKALYUKOV, S.N.; PRIKHOD'KO, N.D.; RUBIN, I.A.; SIDORENKO,  
P.A.; TYUTYUNIK, Ye.I.; KHMEL'NITSKIY, L.Ya.; BONDAR', V.I.; KRIVTSOV,  
A.T.; LOKSHIN, V.D.; SOPIYENKO, N.P. RABINKOVA, L.K., red.izd-va;  
BOLDYREVA, Z.A., tekhn.red.

[Types of mine cross section] Tipovye secheniiia gornykh vyrabotok.  
Moskva, Gos.sauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.4.  
[Cross section of mines supported by a sectional reinforced-concrete  
lining of URP-II panels for 1-, 2- and 3-ton railroad cars] Secheniiia  
vyrabotok, zakreplennykh sbornoi zhelezobetonnoi krep'iu iz plit  
URP-II, dlia 1-, 2- i 3-tonnykh vagonatok. 1960. 278 p.

(MIRA 13:12)

1. Khar'kov. Gosudarstvennyy proyektnyy institut Yuzhgiproshakht.  
(Mine timbering)

SHEVYAKOV, L.D., akademik; IVANOV, A.M.; BUBYR', V.A., gornyy inzh.;  
MONIN, M.I., gornyy inzh.; NEKRASOVSKIY, Ya.E., doktor tekhn.-  
nauk; SHCHUKIN, V.R.

Readers' response to A.A.Shamin, A.M.Belen'kii, and A.V.Galkin's  
article "Pillar systems of mining flat seams without undermining  
the wall rock in the development operations." Ugol' Ukr. 6  
no.9:43-47 S '62. (MIRA 1519)

1. Upravlyayushchiy trestom Rutchenkovugol' (for Ivanov).
2. Gosudarstvennyy institut po proyektirovaniyu shakhtnogo  
stroitel'stva v yuzhnykh rayonakh SSSR (for Bubyr', Monin).
3. Dnepropetrovskiy gornyy institut (for Nekrasovskiy).
4. Nachal'nik upravleniya Donetskogo okruga Komiteta po nadzoru  
za bezopasnym vedeniyem rabot v promyshlennosti i gornoem  
nadzoru pri Sovete Ministrov UkrSSR (for Shchukin).  
(Shamin, A.A.) (Belen'kii, A.M.) (Galkin, A.V.)

MONIN, S.A.

Excursion to the environs of Ozeretskoye Village. Geog. v shkole  
no. 2154-57 [M-Ap] '47.  
(MLRA 9:6)  
(Ozeretskoye--Description)

KOMIN, S A

N/5  
623.65  
.M7

LABORATORNO-PRAKTICHESKIE ZANYATIYA PO POCHVOVEDENIYU I GEOGRAFII PREDV:  
POSOBYE Dlya STUDENTOV GEOGRAFICHESKIKH FAKULTETOV PEDAGOGICHESKIKH INSTITUTOV  
(LABORATORY AND PRACTICAL WORK IN SOIL MECHANICS AND GEOGRAPHICAL DISTRIBUTION OF  
SOILS) MOSKVA, UCHPEDGIZ, 1954.

98 P. ILLUS., DIAGRS., TABLES.

MONIN, S.A., dots.; PORUBINOVSKIY, A.M., red.; KREYS, I.G., tekhn.red.

[Programs of pedagogical institutes; principles of soil science and the geography of soils] Programmy pedagogicheskikh institutov; osnovy pochvovedeniya i geografii pochv. [Moskva] Uchpedgiz, 1957.  
13 p. (KIR 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedenii.  
(Soils—Study and teaching)

VLASOVA, T.V., dots.; MOHAKHOVA, Y.I., dots.; MOULIN, S.A., dots.;  
SHARETS, D.S., dots; KREYS, I.O., tekhn.red.

[Programs of pedagogical institutes; physical geography of areas  
of the world] Programmy pedagogicheskikh institutov; fizicheskaya  
geografiya chastei sveta. [Moskva] Uchpedgiz, 1957. 23 p.

(MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i  
srednikh pedagogicheskikh uchebnykh zavedenii.

(Physical geography--Study and teaching)

MOXIN, Sergey Aleksandrovich; SMIRNOVA, N.P., redaktor; GRYUMBING, G.Yu.  
redaktor; PODOL'SKAYA, K.Ya., redaktor kart; MAKHOVA, N.N.,  
tekhnicheskiy redaktor.

[Geography of soils, with the principles of soil science; a textbook  
for pedagogical institutes] Geografija pochr s osnovami pochvovedenija;  
uchebnik dlia pedagogicheskikh institutov. Moskva, Gos.uchebno-pedagog.  
izd-vo M-va prosv.RSSSR, 1957. 287 p. 2 fold.maps (in pocket)  
(MLRA 10:4)

(Soils)

VLASOVA, Tat'yana; DAVIDOVA, Marina Ivanovna; MONIN, Sargay Aleksandrovich; PISHCHEVA, T.V., red.; PASHCHENKO, O.V., red. kart; PODOL'SKAYA, N.Ya., red. kart; MAKHOVA, N.N., tekhn. red.

[Practical studies in the physical geography of the parts of the world] Prakticheskie raboty po fizicheskoi geografii chastei sveta; posobie dlia studentov pedagogicheskikh institutov. Moskva, Uchpedgiz, 1962. 158 p. (MIRA 16:5)

1. Dotsenty kafedry fizicheskogo stranovedeniya Moskovskogo gosudarstvennogo pedagogicheskogo instituta imeni V.I.Lenina. (for Vlasova, Davydova, Monin). (Physical geography)

MONTIN, S.A.

Soil erosion in the northern part of the Archada-Khoper  
interfluve. Uch. zap. MGPI 120:119-136 '58. (MIRA 16:8)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135110020-7

MONIN, S.A.

Practical work on soil science and soil geography. Uch. zap.  
(MIRA 16:9)  
MGPI no. 159417-52 '60.

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CIA-RDP86-00513R001135110020-7"

107-57-3-53/64

AUTHOR: Monin, V. (s. Pokornoye, Karaganda oblast)

TITLE: Silver-Plating Conductors. Experience exchange  
(Serebreniye provodov. Obmen opytom)

PERIODICAL: Radio, 1957, Nr 3, p 50 (USSR)

ABSTRACT: To silver-plate copper wire or tubing for short-wave or ultrashort-wave coils, one or two sheets of "Unibrom" photo paper should be cut into pieces and immersed in a conventional photosfixer. After a few minutes, the wire or tubing should be rubbed with the emulsion side of the paper. Then, the silver-plated surface should be wiped with a cotton wetted in soft water and dried with a piece of cloth.

Card 1/1

BEGIASHVILI, G.A.; MONIN, Yu.S.

Limited plasma oscillations. Radiotekh. i elektron. 8 no.8;  
1486-1488 Ag '63. (MIRA 16:8)  
(Plasma (Ionized gases))

L 41093-66 ENT(1)/TBD/EXC(k)-2/BAR(k)/T IJP(c) WO  
ACC NR: AP6025964 SOURCE CODE: UR/0051/66/021/001/0111/0113

AUTHOR: Begiashvili, G. A.; Monin, Yu. S.

36 B

ORG: none

TITLE: Stimulated emission in inhomogeneous and polycrystalline samples

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 111-113

TOPIC TAGS: stimulated emission, laser emission, calcium fluoride, polycrystal

ABSTRACT: The effect of the inhomogeneity and polycrystallinity of samples on the production of stimulated emission was studied in connection with a recent report of laser action obtained from polycrystalline  $\text{CaF}_2$  doped with  $\text{Dy}^{2+}$ . To this end, the authors consider a layer of an inhomogeneous active substance placed in a Fabry-Perot resonator. The polarization of the active medium in the high-frequency field of a light wave is assumed to be made up of two parts: polarization of the matrix, and polarization of the active impurities. The inhomogeneities of the medium (i. e., inhomogeneities in the permittivity of the matrix) are macroscopic, and are therefore considered to have no effect on the contribution of the active impurities to the polarization. Expressions which permit a qualitative estimate of the generation threshold are derived for the case of an inhomogeneous isotropic medium and a polycrystal. Orig. art. [27] has: 9 formulas.

SUB CODE: 20/ SUBM DATE: 21 Dec 65/ ORIG REF: 004/ CTH REF: 003 / ATD PRESS: 5055

Card 1/1 hs

UDC: 621.375.2:535.004.14

IVANOV, V.A.; MORINA, K.Z.; MALTABAR, L.N.

Comparative tests of ATS-4 and ATS-4M tank trucks for the  
transportation of liquefied gas. Gas. prom. 7 no. 31-33 '62.  
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1. Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy inatitut.  
(Couplings)  
(Mining machinery)

LOSEV, Boris Ivanovich, prof., doktor tekhn. nauk; MONINA, Margarita  
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[Conquerors of metals] Pobediteli metallov. Moskva, Izd-vo  
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IX Seriya: Fizika i khimija, no.12) (MIRA 16:7)  
(Plastics)

L015004033 EFT(b)/EFT(c)/ECP(j) PC-5/PC-9  
ACTION NR AM5004033 BOMB EXPLOSION

S/ ) /

Boris Ivanovich (Doctor of Technical Sciences, Professor); Molina <sup>E4/</sup>  
Vladimir Vasil'evich (Candidate of Technical Sciences); Butikov, Georgiy  
Sergeevich (Candidate of Technical Sciences); Docants.

Use of plastics and synthetics in the petroleum industry (Ispol'zovaniye  
plasticheskikh mass i sinteticheskikh materialov v naftogazovoy promysh-  
lenosti), Moscow, Izd-vo "Nedra", 1964, 243 p., illus., bibliogr. Errata  
slip inserted. 2,450 copies printed.

TOPIC INDEX: plastic, petroleum industry, plastic pipe, plastic joining,  
corrosion, fuel gas, pump, storage vessel, solidified gasoline

PURPOSE AND COVERAGE: This book presents the experience in the use of syn-  
thetic materials used in the fabrication and use of equipment for transporta-  
tion and storage of oil, petroleum products, and fuel gases. The technical  
characteristics of the basic types of synthetic materials and brief informa-  
tion on their production technology are included. Basic attention is given  
to the materials that have found application in the oil and gas industry.  
Great emphasis is placed on pipes made from synthetic materials (their  
use in pipelines and experience in their practical use), soft

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and rigid (the latter) vessels used for transportation and storage. The problems of obtaining and using stabilized gasoline and gases, ways of protecting petroleum products against evaporation during storage, design of pumps and equipment from synthetic materials, and petroleum storage equipment are also considered. The book is intended for a wide audience of researchers and engineers and production workers in the oil and gas industry and other branches of the economy concerned with the use, pumping, and storage of petroleum products and gas.

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Ch. II. Comparison of plastic and metal pipes -- 12

Ch. III. Method of calculating the strength of synthetic materials and methods of making plastic pipes -- 76

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Ch. VII. Other areas for the use of application of plastic pipes -- 159

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- REF ID: A26

SUBMITTED: 14 Mar 64

OTHER: 10t

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Recent data on the use of plastics in the oil and gas industry  
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Sof'ya Grigor'yevna. Prinimala uchastie MURALEVICH,  
M.V.; POTAPOVA, L.V., kand. tekhn. nauk; MONINA, P.V.,  
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■ '58. (MIRA 11:12)

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(MIRA 10:7)  
(Poland--Construction industry)

ZVORIKINA, R.A.; MONIYEV, B.N.

One way to metallize Seignette's salt. Trudy LKI no.28:199-201  
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(Rochelle salt) (Metal spraying)

20912

P/047/60/011/001/001/002  
D235/D306

26.23//

AUTHOR: Mohka, Jadwiga

TITLE: Properties of hot plasma

PERIODICAL: Postępy fizyki, v. 11, no. 1, 1960, 83-99

TEXT: This is a survey of existing experimental installations for controlled thermonuclear reaction and of the general properties of hot plasma. The author divides the installations into two groups: linear and toroidal, enumerates, and gives photographs of American, British, French, and one Soviet installation, the OGRA. Further the author outlines briefly the methods of obtaining a thermonuclear reaction. In the latter part of the article the physical properties of plasma at very high temperatures are briefly specified and discussed. These are as follows: 1) Ionization up to 100 %; 2) Electrically neutral; 3) High electric conductivity which increases with temperature according to  $\sigma = \frac{3 \cdot 10^{-6}}{T^{3/2}}$  ohm·cm, where T is

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Properties of hot plasma

expressed in keV; 4) High heat conductivity; 5) Radiation, due probably to bremsstrahlung according to  $E_h = 1.47 \cdot 10^{-27} z^2 n_i n_e T^{1/2}$  erg, calculated per  $\text{cm}^3$  and sec, where  $E_h$  = energy of bremsstrahlung,  $T$  = temperature in  $^\circ\text{K}$ ,  $n_i$  and  $n_e$  = the number per  $\text{cm}^3$  of ions and electrons respectively; 6) Plasma can be a source of neutrons; 7) Coulomb forces exist between the particles (+) and (-) within the plasma; 8) The plasma of discharge is not in a thermodynamic equilibrium; 9) Plasma oscillates: There exist: a) longitudinal oscillations; the electron plasma angular frequency  $\omega_p$  is

given by  $\omega_p = \sqrt{4\pi n_c \frac{e^2}{m} \frac{1}{sec}}$ . An electromagnetic wave within the plasma is not attenuated, unless its  $\omega > \omega_p$ . Light is not affected, radio waves can be either absorbed or reflected. Its dielectric

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Fig. 11. OGRA



Fig. 11.  
Reactor Ogra

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## Properties of hot plasma

constant is given by  $\epsilon = 1 - \left(\frac{\omega_p}{\omega}\right)^2 = 1 - \frac{4\pi n_e \cdot e^2}{m\omega^2}$  and the refraction coefficient  $n = \sqrt{\epsilon}$ . b) If plasma is placed in a magnetic field, there can occur magnetohydrodynamic waves as described by Alfvén [Abstractor's note: Polish transliteration]. These are radial waves, propagating along the lines of the magnetic field. Alfvén waves occur when both  $\omega$  and  $\omega_p \ll \omega_c$  - the angular cyclotron frequency of the electron. The velocity of propagation of the hydro-magnetic waves is given by the Alfvén formula  $v_A = \left(\frac{H^2}{4\pi\gamma}\right)^{1/2}$ , where  $\gamma$  is mass per unit length -  $\gamma = (n_1 m_i + n_e m_e) \approx n_1 m_i$ , or

$$\left(\frac{v_A}{c}\right)^2 = \frac{2\left(\frac{H^2}{8\pi}\right)}{\gamma c^2}, \text{ where } c \text{ is the velocity of light. In thermonuclear}$$

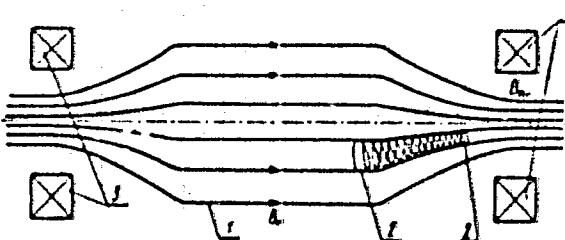
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Properties of hot plasma

reactions these waves propagate much more slowly than the velocity of light  $\frac{v_A}{c} \ll 1$ . The Alfvén waves are responsible for the problem of plasma instability. The pinch effect, as applied for separating plasma from the walls of the evacuated cylinder or toroid, is next briefly discussed, and the method of the longitudinal magnetic field as an alternative, as used in the so-called stellarators, is also mentioned. The principle of a "mirror" installation or stellarator is shown in Fig. 17.

Fig. 17. The principle of a bottle with magnetic mirrors.  
1 - lines of force, 2 - the path of the particle, 3 - coils.



Rys. 17. Zasada butelki ze swiercfaldami magnetycznymi  
1 - linie pol., 2 - tor cząstki, 3 - cewki

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Properties of hot plasma

The mirror effect of the magnetic field is the result of conservation of two invariants of the particle moving in the magnetic field. These invariants are: The magnetic moment of the particle

$\mu = \frac{E_{\perp}}{B} = \text{const.}$  and its total energy  $E = E_{\perp} + E_{||} = \text{const.}$ , where  $E_{\perp}$  and  $E_{||}$  are normal and parallel components of the particle energy with respect to the direction of the magnetic field respectively. The author states in conclusion that it is not at all certain if the magnetic separation of plasma will eventually lead to a controlled thermonuclear reaction, but that progress in the technology of linings or of vacuum can produce changes in the physics of plasma "bathed" in a magnetic field. There are 20 figures and 16 references, 4 Soviet-bloc and 12 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: R.F. Post, Rev. mod. Phys. 28, 383, 1956; M. Rosenbluth and others, Magnetohydrodynamics, 1957; L. Spitzer, Physics of Fully Ionized

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D235/D306

Properties of hot plasma

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Scientific American, 8, 80, 1957.

ASSOCIATION: Zakład fizyki technicznej politechniki Łódzkiej, Łódź  
(Department of Physics at the Łódz Polytechnic).

Card 7/7

S/124/63/000/001/006/080  
D234/D308

AUTHOR: Monka, Jadwiga

TITLE: Conditions on the surface of plasma

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 9-10,  
abstract 1853 (Bull. Soc. Sci. et. lettres kodz,  
1961, v. 12, no. 19, 4 pp (Eng.,))

TEXT: The author considers the relations for discontinuities of electric and magnetic field strengths at the boundary of plasma. Analyzing the equations of induction for a given contour enclosing the dividing boundary, the author obtains a well known result that the electric and magnetic field strengths are continuous in the direction perpendicular to that boundary (see for instance V.L. Ginzburg, Elekromagnitnye volny v plasme (Electromagnetic waves in plasma) K., Fizmatgiz, 1960). The expressions for the discontinuity of the electric field strength,

$$[E] = \frac{\frac{4\pi}{c} j \frac{v}{c}}{1 - v^2/c^2} \approx \frac{4\pi}{c} j \frac{v}{c}$$

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D234/D308

Conditions on the surface of plasma

and for that of the magnetic field strength

$$[H] = \frac{4\pi j \times n}{1 - v^2/c^2} \approx \frac{4\pi}{c} j \times n$$

(where  $v$  is the velocity of motion of the plasma boundary,  $c$  is the velocity of light,  $n$  is the unit vector normal to the division boundary,  $j$  is the current density on the boundary), obtained by the author, are quoted in many textbooks on electrodynamics (see for instance L.D. Landau, Ye.M. Lifshitz, Elektrodinamika sploshnykh sred (Electrodynamics of continuous media) M., Gostekhizdat, 1957). The author's proposition that for the velocities of motion of the boundary  $v \ll c$

$$\frac{[E]}{[H]} \sim \frac{v}{c}$$

is not new. In conclusion the author obtains an equation for the velocity of motion of a magnetic piston assuming that the velocity

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Conditions on the surface of plasma

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of the latter is considerably higher than the velocity of thermal motion of plasma particles, and the difference of magnetic pressure on the piston is balanced by the moment of momentum of particles interrupting with the piston in a time unit.

[Abstracter's note: Complete translation]

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MONKA-SZMATŁOCH, Jadwiga

Determination of the diffusion coefficient of plasma found in  
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(MLRA 9:8)

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AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N.  
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(ELECTROPHORESIS, apparatus and instruments,  
new model (Bus))

SHALIK, M., inzh.-tekhnolog; MONKEVICH, V., tekhnik-khimik

Laboratory checking of milling mixtures of wheat. Muk. elev.  
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1. Kiyevskiy mel'nicnyy kombinat No.1.  
(Wheat—Analysis and chemistry)

MONKIELEWICZ, L.

Principles of the conservation and preparation for work of engine chains of  
chain saws. p. 139.

PRZEMYSŁ DRZEWNY. Centralne Zarządy Przemysłów Drzewnego, Meblarskiego, i  
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Warszawa, Poland. Vol. 9, No. 5, May 1959.

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Determination of a most profitable set of units of a condensing  
steam power plant. Energetyka Pol 18 no.4t105-111 Ap'64.

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Method for storing penicillin. Med.sestra 17 no.12130-31 D'58  
(MIRA Li:ll)

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MON'KO, Aleksey Mitrofanovich, Volgogradskiy zhurnalist;  
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(Building materials industry)

MON'KO, S., inzhener-polkovnik

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y '62. (MIRA 15:3)  
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MONIN, Ya.D.; BEROV, B.G.; PLATOHOV, V.M.

Calculations of the processes involved in the vapor - liquid equilibrium of multicomponent systems by means of electronic computers. Gaz.prom. 5 no.10:44-47 O '60. (MIRA 13:10)  
(Gas manufacture and works) (Phase rule and equilibrium)  
(Electronic calculating machines)

PLATONOV, I.M.; RERGO, B.G.; MONKO, Ya.D.; KOGAN, B.O.

Calculating the rectification of mixtures of components having close-boiling points by means of a digital computer. Khim.prom. no.8:656-660 D '60. (NIIRA 13:12)

— L.-Machno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov. (Distillation, Fractional) (Calculating machines)

PLATONOV, V.M.; MONKO, Ya.D.; BERGO, B.O.

Calculation of unsteady rectification conditions by means of the  
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(MIRA 14:6)

(Distillation, Fractional)

BERGO, B.O.; MONKO, Ia.D.; PLATONOV, V.M.

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(KIRA 15:2)

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PLATONOV, V.N.; MONKO, Ya.D.; BENO, B.O.

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i naft. 8 no.6:12-16 Je '63. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov  
i organicheskikh produktov.  
(Petroleum—Refining)  
(Distillation, Fractional)

PLATONOV, V.M.; MONKO, Ya. D.; BERGO, B.G.

Thermodynamic efficiency of multicomponent rectification. Zhur.  
prikl. khim. 36 no.4:768-779 Ap '63. (MIRA 16:7)

(Distillation, Fractional) (Thermodynamics)

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